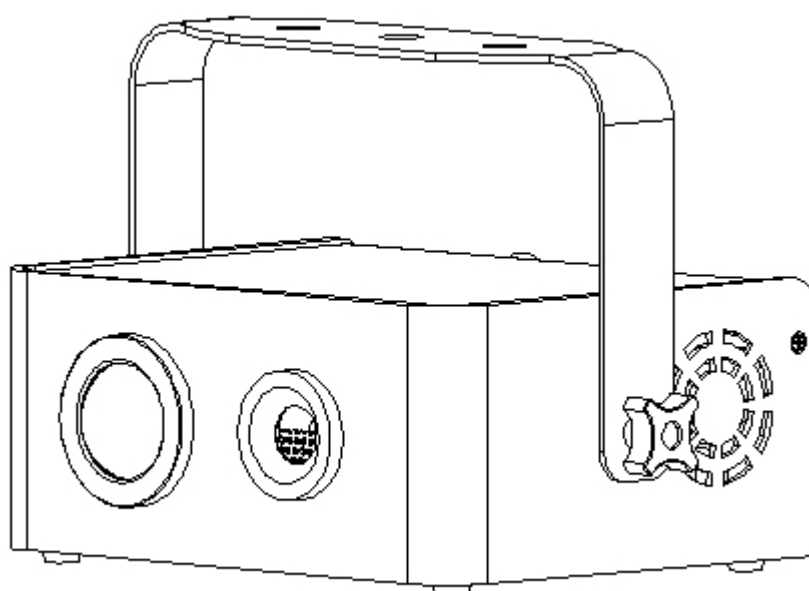




User manual



# **Laser Moonstar MK II**

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## 1. Safety instructions



- This device is suitable for indoor use only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

### 1.1. FOR SAFE AND EFFICIENT OPERATION

#### **Be careful with heat and extreme temperature**

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or ex ceeding 104°F /40°C.

#### **Keep away from humidity, water and dust**

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

#### **Keep away from sources of hum and noise**

Such as transformer motor, tuner, TV set and amplifier.

#### **To avoid placing on un-stable location**

Select a level and stable location to avoid vibration.

#### **Do not use chemicals or volatile liquids for cleaning**

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

#### **If out of work, contact sales agency immediately**

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

#### **Take care with the power cable**

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

**Important:** Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

## 2. Warning!

Lasers can be hazardous and have unique safety considerations. Permanent eye injury and blindness is possible if lasers are used incorrectly. Pay close attention to each safety REMARK and WARNING statement in the user manual. Read all instructions carefully BEFORE operating this device.



**Attention!** Indicates a skill or other useful information for special situation



**Important!** Indicates important information, to protect people from laser incident or damage



**Caution!** Prevent damage or injury from incorrect operation.



**Laser!** Laser safety warning labels.



**Recycle** To protect the environment, recycle packing material wherever possible.



**Indoor** The projector is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other fluids, or metallic objects.



**Wastebin** Don't throw this product away just as general trash, please dispose of this product following the abandon electronic product regulation in your country.



**Location** The projector must be installed in a location with adequate ventilation, at least 50cm (20inches) from adjacent surfaces. Be sure that no ventilation slots are blocked.



### 2.1. Laser Safety Warnings

Potential laser injury hazard exists with this product! Read these Instructions carefully, which include important information about installation, safe use and service!

**Caution**

Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

**Caution**

This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.

**Caution!**

It is illegal and dangerous to shine this laser into audience areas, where the audience or other personnel could get direct laser beams or bright reflections into their eyes.

**Caution!**

It is a US Federal offense to shine any laser at aircraft

**Caution**

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact the dealer nearest to you.

**Caution**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

## 2.2. NON-INTERLOCKED HOUSING WARNING

This unit contains high power laser devices internally. Do not open the laser housing, due to potential exposure to unsafe levels of laser radiation. The laser power levels accessible if the unit is opened can cause instant blindness, skin burns and fires.

## 2.3. LASER SAFETY AND OPERATING INSTRUCTIONS

**STOP AND READ ALL LASER SAFETY DATA**

Laser light is different from any other light source which you may be familiar. The light from this product can potentially cause eyes injury if not set up and used properly.

Laser light is thousands of times more concentrated than light from any other kind of light source. This concentration of light power can cause instant eye injuries, primarily by burning the retina (the light sensitive portion at the back of the eye). Even if you can not feel "heat" from a laser beam, it can still potentially injure or blind you or your audience. Even very small amounts of laser light are potentially hazardous even at long distances. Laser eye injuries can happen quicker than you can blink.

It is incorrect to think that because these laser entertainment products split the laser into hundreds of beams or laser beam is scanned out in high speed, that an individual laser beam is safe for eye exposure. This laser product uses dozens of milliwatts of laser power (Class 3B levels internally). Many of the individual beams are potentially hazardous to the eyes.

It is also incorrect to assume that because the laser light is moving, it is safe. This is not true. Nor, do the laser beams always move. Since eye injuries can occur instantly, it is critical to prevent the possibility of any direct eye

exposure. In the laser safety regulation, it is not legal to aim Class 3B lasers in areas which people can get exposed. This is true even if it is aimed below people's faces, such as on a dance floor.

- Do not operate laser without first reading and understanding all safety and technical data in this manual.
- Always set up and install all laser effects so that all lasers light is at least 3 meters (9.8 feet) above the floor on which people can stand. See "Proper Laser Set-up & Usage" section later in this manual.
- After set up, and prior to public use test laser to ensure proper function. Do not use if any defect is detected.
- Do not use if laser emits only one or two laser beams rather than dozens/hundreds, as this could indicate damage to the diffraction grating optic, and could allow emission of higher laser levels.
- Do not point lasers at people or animals.
- Never look into the laser aperture or laser beams.
- Do not point lasers in areas in which people can potentially get exposed. such as uncontrolled balconies, etc.
- Do not point lasers at highly reflective surfaces such as windows, mirrors and shiny metal. Even laser reflections can be hazardous
- Never point a laser at aircraft, this is a federal offense.
- Never point un-terminated laser beams into the sky.
- Do not expose the output optic (aperture) to cleaning chemicals.
- Do not use laser if the laser appears to be emitting only one or two beams.
- Do not use laser if housing is damaged or open, or if optics appear damaged in any way.
- Never open the laser housing. The high laser power levels inside of the protective housing can start fires, burn skin and will cause instant eye injury.
- Never leave this device running unattended.
- The operation of a Class 3B laser show laser is only allowed if the show is controlled by a skilled and well-trained operator familiar with the data included in this manual.
- The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.
- Always use appropriate lighting safety cables when hanging lights and effects overhead.

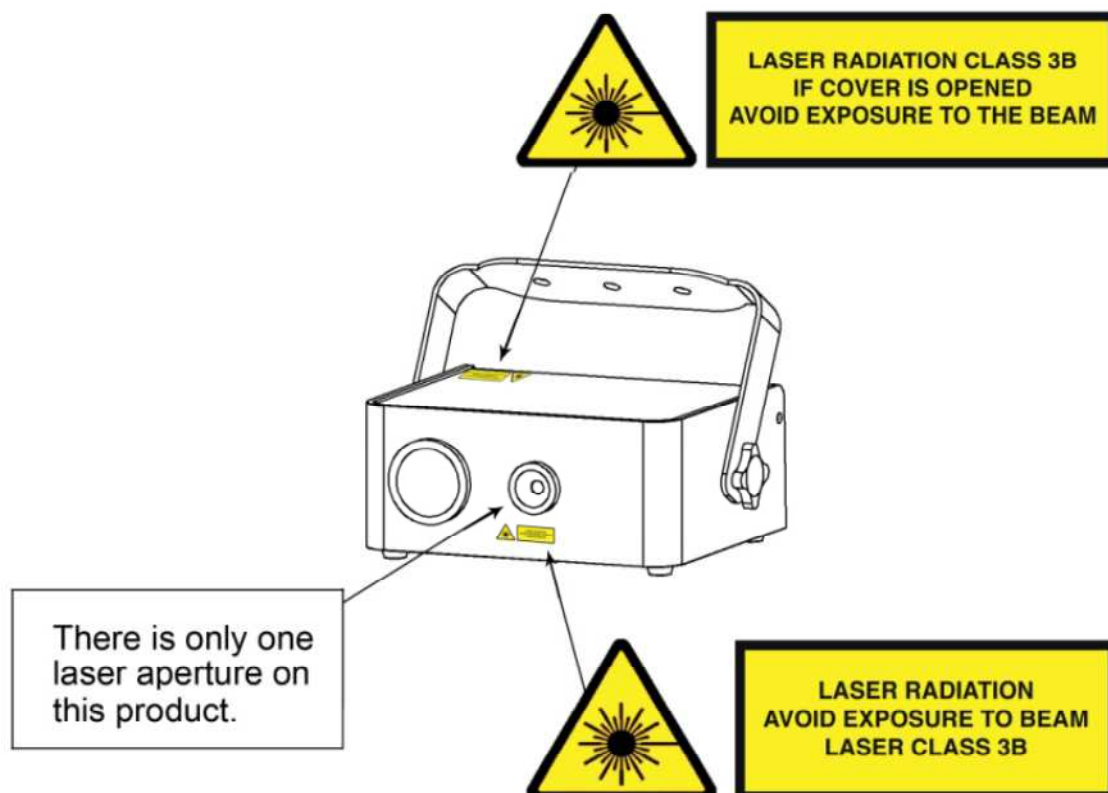
## 2.4. LASER EXPOSURE WARNING



### **LASER LIGHT AVOID DIRECT EYE EXPOSURE**

Further guidelines and safety programs for safe use of lasers can be found in the ANSI Z136.1 Standard "For Safe Use of Lasers", available from "www.laserinstitute.org". Many local governments, corporations, agencies, military and others, require all lasers to be used under the guidelines of ANSI Z136.1. Laser Display guidance can be obtained via the International Laser Display Association, [www.laserist.org](http://www.laserist.org).

### 3. LASER SAFETY LABEL REPRODUCTIONS



#### 3.1. LASER EMISSION DATA

Laser Classification	Class 3B
Red Laser Medium	LD GaAlAs 650nm, typical
Green Laser Medium	DPSS Nd:YVO4, 532nm
Beam Diameter	<5mm at aperture
Pulse Data	All pulses < 4Hz (>0.25sec)
Divergence (each beam)	<2 mrad
Divergence (total light)	<160 degrees
Cooling	Fan Cooling
Laser Power	Red>100mW, Green >40mW

#### 3.2. LASER COMPLIANCE STATEMENT

This laser product complies with EN 60825-1 : 1994 + A1 : 2002+A2:2001 + COTT

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## 4. GENERAL SAFETY INSTRUCTIONS

Every person involved with installation and maintenance of this device has to

- Be qualified.
- Follow the instructions of this manual.

**CAUTION! Be careful with your operations. With a high voltage you can suffer a dangerous electric shock when touching the wires!**

This device has left out premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.



**Important!**

The manufacturer will not accept liability for any resulting damage caused by the non-observance of this manual or any unauthorized modification to the device.

- Please consider that damages caused by manual modifications to the device are not subject to warranty.
- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Make sure that the available voltage is not higher than stated on the rear panel.
- Always plug in the power plug least. Make sure that the power-switch is set to off-position before you connect the device to the mains. The power-plug has to be accessed after installing the device.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.
- Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- It is essential to connect the yellow/green conductor to earth.
- The electric connection, repairs and servicing must be carried out by a qualified employee.
- Do not switch the fixture on and off in short intervals as this would reduce the laser diode life.
- For replacement, please use fuses of same type and rating only.
- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- Do not shake the device. Avoid brute force when installing or operating the device.
- When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!
- The minimum distance between the fixture and surrounding walls must be more than 50cm.
- Always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the safety-rope only.
- The ambient temperature must be between 10°C to 40°C.



- Please use the original packaging if the device is to be transported.
- Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

**CAUTION!** Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation

**CAUTION!** If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the warranty word.

## 5. BEFORE OPERATION

### 5.1. Unpacking Instructions



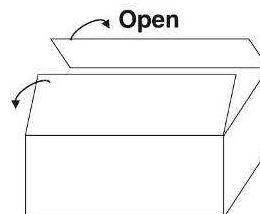
#### CAUTION!

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damage from shipping or the package itself shows signs of mishandling. Save the package and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

### 5.2. What is included

The carton or flight case contain following items

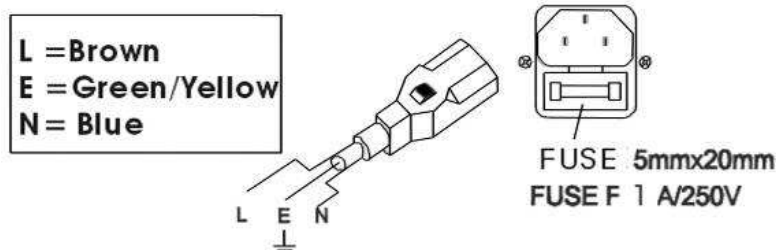
NAME	QTY
Laser Light	1 PCS
KEYs (for key switch)	2 PCS
Power Cord	1 PCS
USER MANUAL	1 PCS




### 5.3. Power Supply

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture of refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

The unit is supplied with a power plug appropriate to its voltage and destination. Should any other connections be required they must be carried out with the following configuration.



Cable EU	Cable US	Pin	International
Brown	Black	Live	L
Light Blue	White	Neutral	N
Yellow/Green	Green	Earth	

## 5.4. DMX-512 connection between fixtures

The fixture is equipped with 2-pin XLR sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted-pair cable designed for 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another

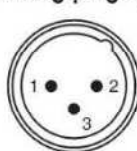
### 5.4.1. Occupation of the XLR-connection

DMX - output  
XLR mounting-sockets (rear view):



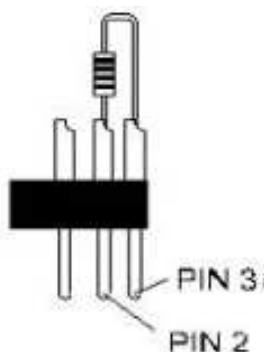
- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)

DMX-input  
XLR mounting-plugs (rear view):

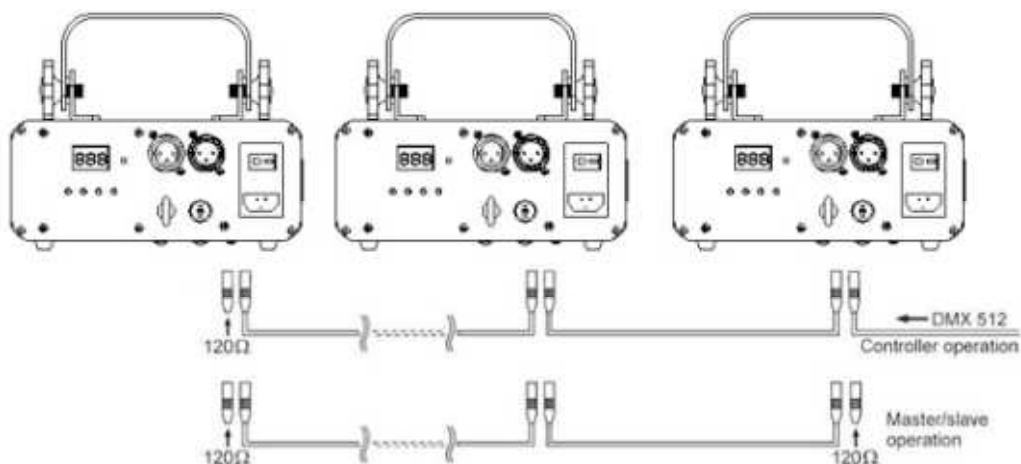


#### CAUTION!

At the laser fixture, the DMX-cable has to terminate with a terminator. Solder a 120 Ohm resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.



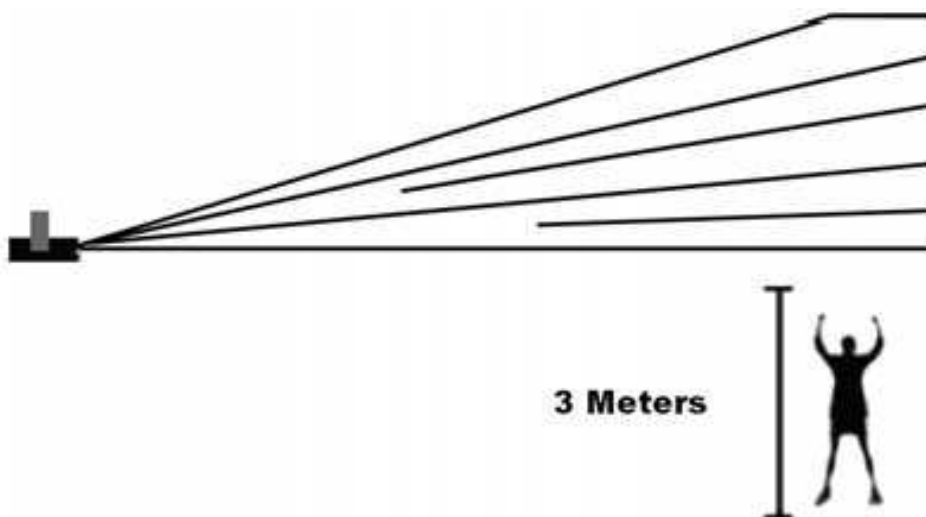
### 5.4.2. Building a serial DMX-chain



- If you are using the standard DMX-controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter cables.
- Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect output with the input of the next fixture until all fixtures are connected.
- If you use a controller with 5 pins DMX connector, you need to use a 5 to 3 pins adapter
- At last fixture, the DMX cable has to be terminated with a terminator. Solder a 120 Ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3 pins XLR-plug and plug it in the DMX-output of the last fixture.
- Connect the fixture together in a daisy chain by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a Y cable. DMX 512 is a very high speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- The DXM output and input connectors are pass-through to maintain the DMX circuit, when power is disconnected to the unit.
- Each fixture needs to have a DMX address to receive the data from the controller. The DMX address number which could be read from rear panel of each fixture is between 000~511.
- The end of the DMX 512 chain should be terminated to reduce signal errors.

## 6. Proper Laser Set Up & Usage

This fixture has been designed to be hung. It is recommended for safety purposes, your lighting effect are properly mounted using a suitable hanging clamp and safety cable. Items appropriate for safe and effective mounting are easily sourced from your lighting vendor. International laser safety regulations require that lasers must be operated in the fashion illustrated below, with a minimum of 3 meters (9.8 ft) of vertical separation between the floor and the lowest laser light vertically. Additionally, 2.5 meters of horizontal separation is required between laser light and audience or other public spaces.



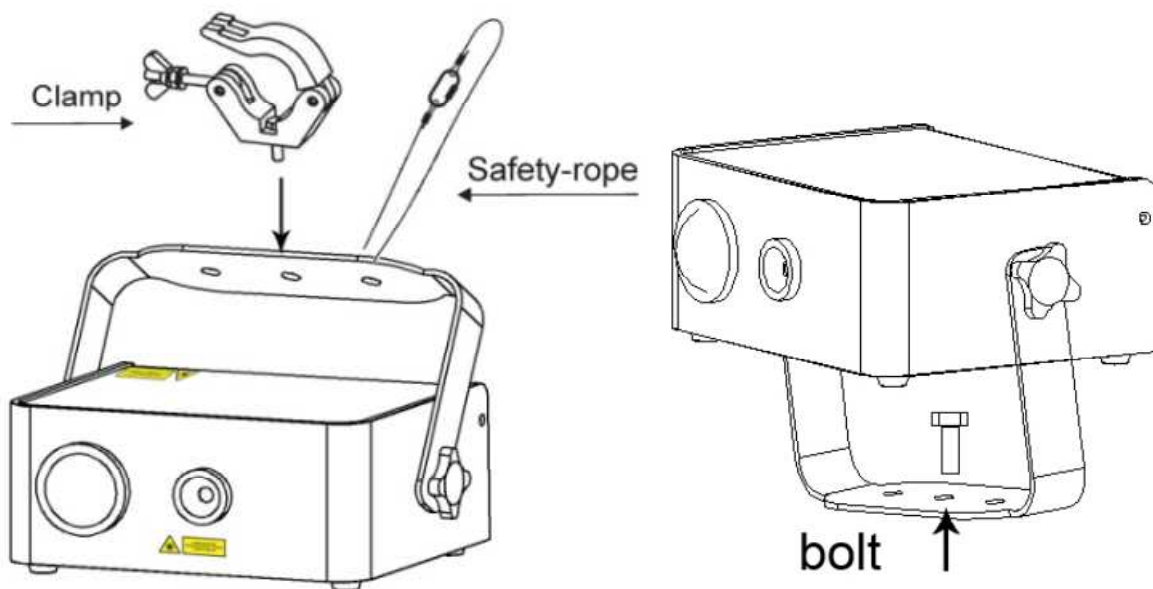
**CAUTION:** Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure

## 6.1. Rigging the Fixture

**CAUTION!** Please consider the respective national norms during the installation! The installation must only be carried out by an authorized employee or dealers!

- The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.
- The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.
- The fixture should be installed in the position where persons cannot reach and where persons may walk by or be seated.

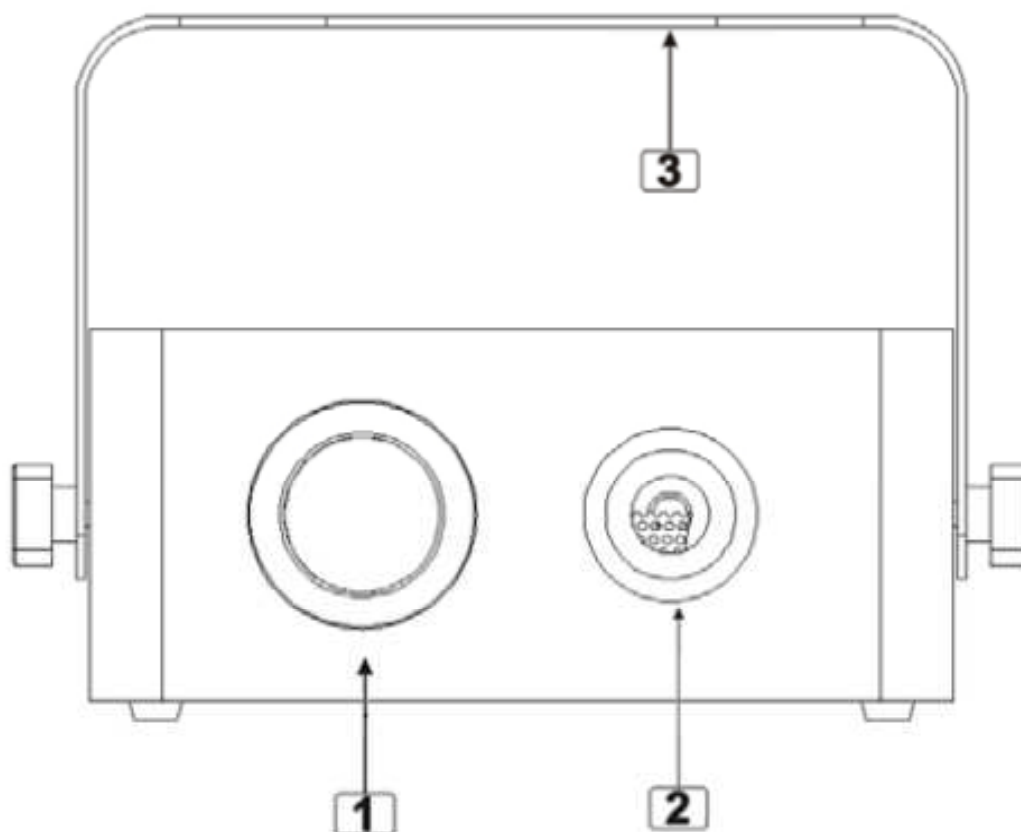
**CAUTION!** When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in between a distance of min 0.5 meter.



## 7. PRODUCT OVERVIEW

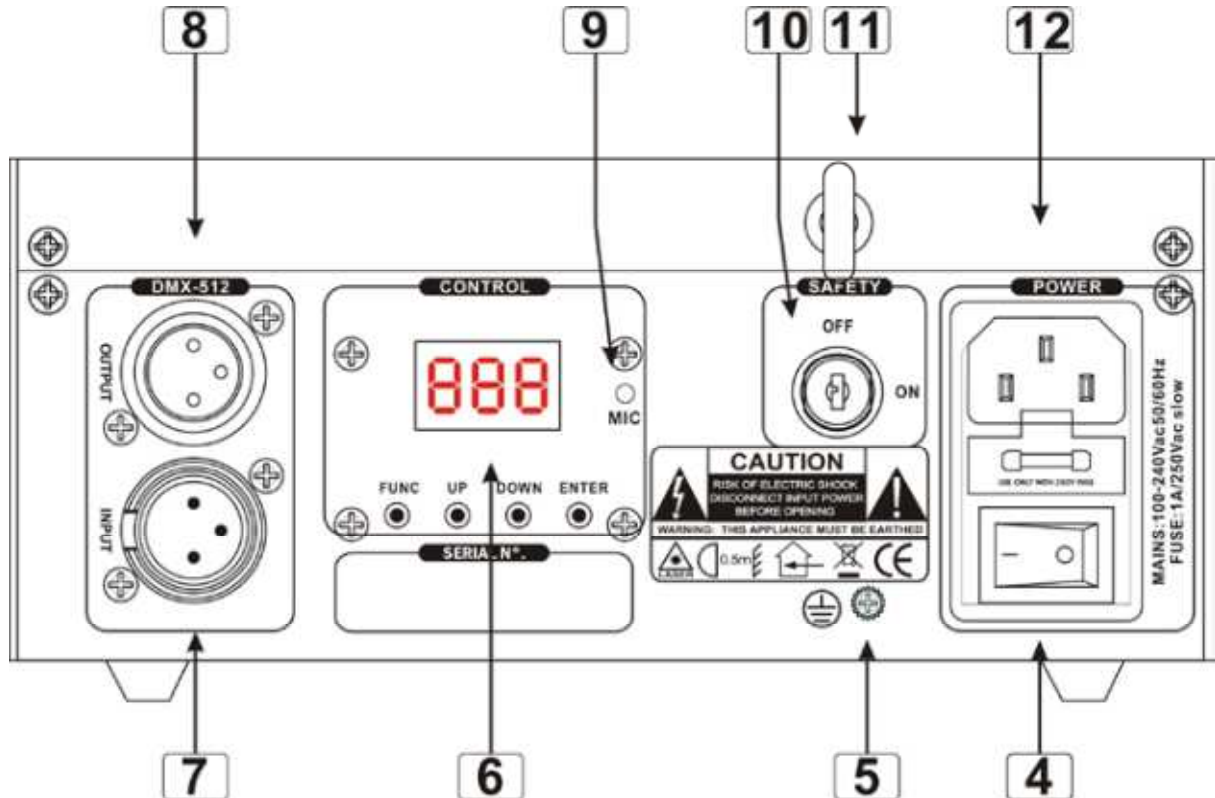
- This device has left out premise in absolutely perfect condition. In order to maintain this condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

### 7.1. Front Panel



NO	NAME	FUNCTION
1	LED Output	Effekt Output LED
2	Laser output	Laser output Lense
3	Bracket	To mount the item

## 7.2. Rear Panel



NO	NAME	FUNCTION
4	Power switch	Switch on and off the power
5	GND	Fixture power ground point
6	Control panel	To control the fixture with digital LED display, check more information on CONTROL & FUNCTION
7	DMX Input	3 pins male XLR connector
8	DMX Output	3 pins female XLR connector
9	MIC	To detect the music/sound signal
10	Key Switch	To turn on and off the laser
11	Safety Eye	Used to attach a safety cable when the fixture is rigged. Check more details in RIGGING
12	Power Plug	AC 100~240V, 50/60Hz

## 8. CONTROL & FUNCTION

- Regular breaks during operation are essential to maximize the life of this device as it is not designed for continual use.
- Do not switch the unit on and off in short time intervals
- Always unplug the unit when it is not used for a longer time. Or before replacing the bulb or start servicing.
- In the event of serious operation problems, stop using the fixture and contact your dealer immediately.

## 8.1. Operating Mode



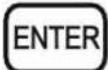
**Attention!**

Once after every power on laser, the **VERSION** and **MANUFACTURE INFORMATION** will be shown in LCD monitor of rear panel.

When laser is powered on, LCD monitor on rear panel shows the current operating standalone mode or DMX address of DMX mode. With help of LCD control panel, is very easy to set and change the operating mode of laser. After every resetting and saved, the new mode information will be shown on LCD monitor at next power on.



Mode Option, to choose the operating mode of laser.

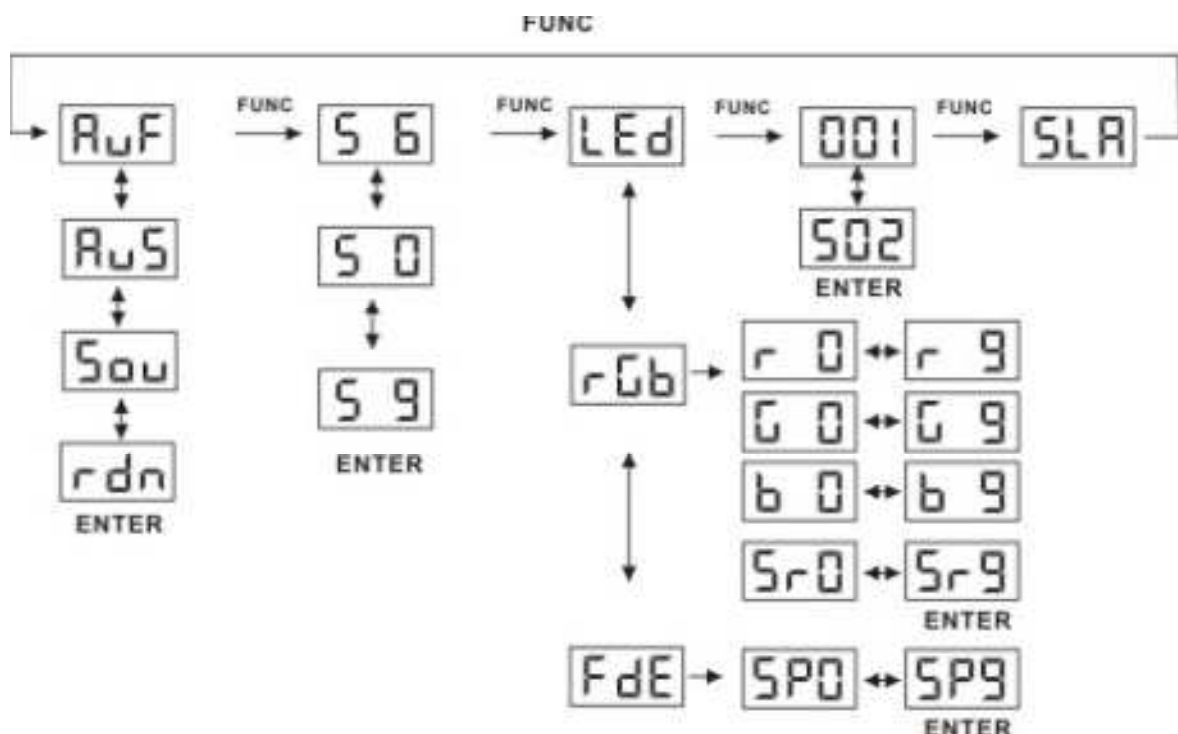


Confirmation, to confirm the laser to show the present mode at the next operation.



UP/DOWN, to change operating mode, parameter or DMX address.

## 8.2. OPERATION



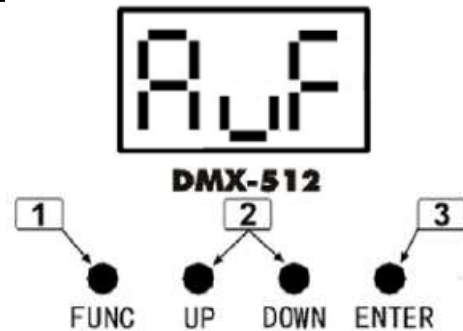
**Attention!**

In preprogrammed standalone **MUSIC SHOW** mode, the laser beam will be blank-out in 3 seconds without **AUDIO/MIC** activated signal.



## 8.3. Stand Alone Preprogram Laser Show

- Press FUNC to enter MODE OPTION.
- Till to LED panel shows either one of AUF, AUS, SOU, RDN
- Press FUNC to select your favorite Stand Alone mode as above.
- Press ENTER to confirm the setting.



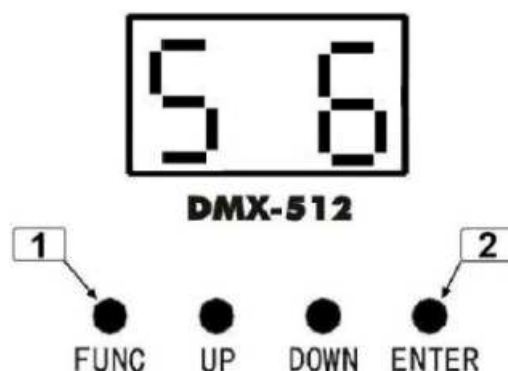
The laser is working in stand alone. Each time when you turn on your laser, you will have this confirmed laser show.

In the MODE OPTION setting, the stand alone laser show that you are going to choose is flashing. Press FUNC to change stand alone laser show, you will have 3 different stand alone preprogrammed laser show. Their DISPLAY and EFFECT are listed below:

DISPALY		STAND ALONE MODE PREPROGRAM EFFECT
AUF	AUF	Auto Running Fast Effect
AUS	AUS	Slow Running Slow Effect
Sou	SOU	Sound Activated Moving Effect
r dn	RDN	rAndom Effect

## 8.4. Sound Activated Sensitivity Setting

In the MODE setting, press ENTER to confirm Sou (Sound Activated Mode), the setting manual goes into Sound Activated Sensitivity Setting. LED display S 0 ~ S 9. Press UP / DOWN to take your favorite Sensitivity Level. S 0 is no sound activated, from S 1 to S 9, the sensitivity level is going more sensitive. Press ENTER to confirm the setting.





## 8.5. Manual Running Mode (MAN)

Press FUNC, until LED or RGB or RDE is shown in LED display panel. LED mode is preprogramed effect of LED. RGB mode is manual setting of LED effect. Once RGB mode is confirmed by press ENTER, the setting goes into 4 specification setting. Every pressing ENTER, it goes into next specification setting, until RGB is shown again. There 4 specification setting are listed below:

NO.	DISPALY	DESCRIPTION
1	R 0~R 9	Red laser strobe frequency, fast -> slow.
2	G 0~G 9	Green laser strobe frequency, fast -> slow.
3	SR0~SR9	LED Strobe frequency fast → slow

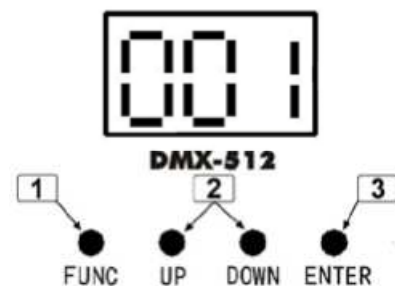
RDE mode is LED RAINBOW FADE FROM COLOR TO COLOR

NO.	DISPALY	DESCRIPTION
1	SP 0~SP 9	LED RAINBOW FADE SPEED (0-100%)

## 8.6. DMX MODE

- Press FUNC to enter MODE OPTION
- Till to LED panel shows 001.
- Press ENTER to confirm the setting.

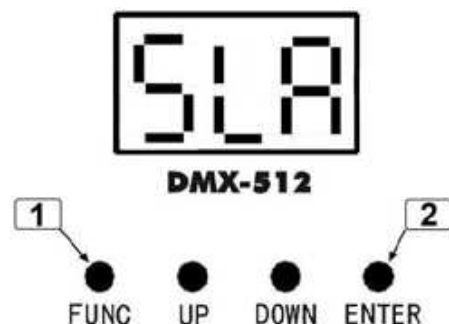
The laser is working in “DMX MODE”. With help of UP/DOWN button, it could be easily change the DMX address of the laser.



## 8.7. MASTER/SLAVE MODE

- Press FUNC to enter MODE OPTION
- Till to LED panel shows SLA
- Press ENTER to confirm the setting.

The laser is working in “SLAVE MODE”. Connect MASTER laser and SLAVE lasers with DMX cable, the SLAVE lasers do what exactly MASTER laser does. Check “5.2 DMX connection” to have more details about laser connection.



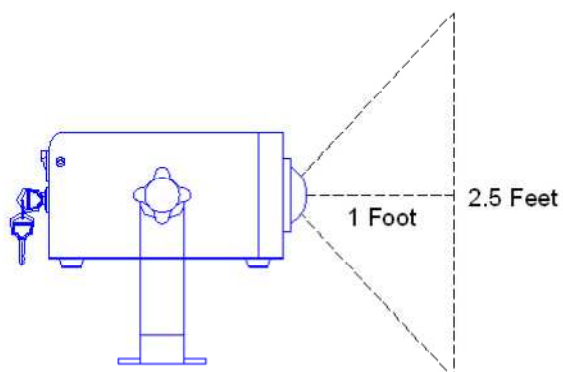
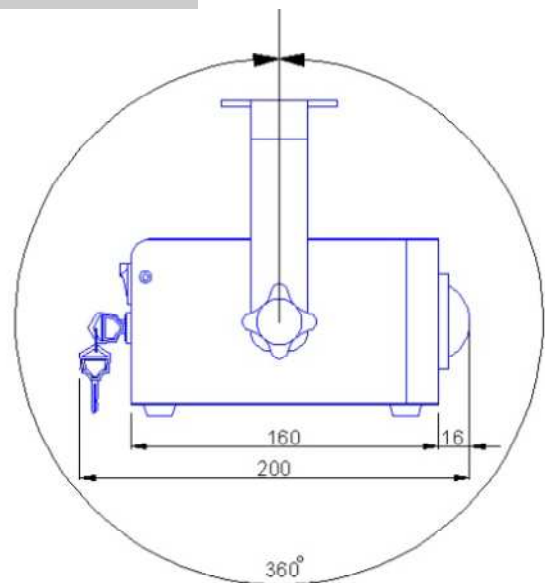
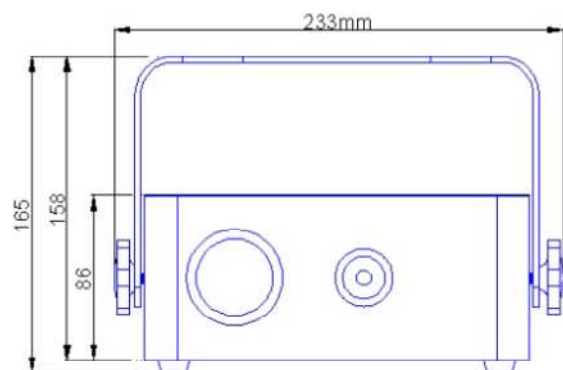
## 9. DMX Chart

CHANNEL	VALUE	FUNCTION
CH 1 MODE	000-049	DMX MODE
	050-099	AUS
	100-149	AUF
	150-199	SOU
	200-255	RANDOM
CH 2 LASER COLOR	000-004	BLACKOUT
	005-028	RED
	029-056	GREEN
	057-084	RED & GREEN
	085-112	RED OFF & GREEN STROBING
	113-140	GREEN OFF & RED STROBING
	141-168	RED ON & STROBING GREEN
	169-197	GREEN ON & STROBING RED
	198-224	RED & GREEN STROBING
	225-255	ALTERNATE STROBING RED & GREEN
CH 3 GREEN STROBE	000-004	NO STROBE
	005-249	STROBE (SLOW > FAST)
	250-255	STROBE TO SOUND
CH 4 LASER ROLLING	000-004	NO ROTATION
	005-127	CW ROTATION (SLOW > FAST)
	128-133	STOP
	134-255	CCW ROTATION (SLOW > FAST)
CH 5 LASER	000-004	NO VIBRATING

<b>VIBRATE</b>	005-255	VIBRATE (SLOW > FAST)
<b>CH 6 LASER TWINKLE</b>	000-004	NO ROTATION
	005-255	FLASH (SLOW > FAST)
<b>CH 7 RED LED</b>	000-127	Fixed RED LED BRIGHTNESS(0 %- 100%)
	128-169	Brightness looping 0%-100%
	170-209	Brightness looping 100%-0%
	210-255	Alternately brightness 100%-0%-100%.....
<b>CH 8 GREEN LED</b>	000-127	GREEN LED BRIGHTNESS(0 %- 100%)
	128-169	Brightness looping 0%-100%
	170-209	Brightness looping 100%-0%
	210-255	Alternately brightness 100%-0%-100%.....
<b>CH 9 BLUE LED</b>	000-127	BLUE LED BRIGHTNESS(0 %- 100%)
	128-169	Brightness looping 0%-100%
	170-209	Brightness looping 100%-0%
	210-255	Alternately brightness 100%-0%-100%.....
<b>CH10 LED</b>	000-255	LED MASTER DIMMER
<b>CH11 LED STROBE</b>	000-004	NO STROBE
	005-249	STROBE (SLOW > FAST)
	250-255	STROBE TO SOUND
<b>CH12 LED ROTATE</b>	000-004	NO ROTATION
	005-127	CW ROTATION (SLOW > FAST)
	128-133	STOP
	134-255	CCW ROTATION (SLOW > FAST)

## 10. Specifications

Mains Input:	AC100~240V, 50/60Hz
Total Power:	34W
X/Y Axis Beam Angle:	160°
Music Control:	Audio / Sound Activated
Laser Power:	100mW 650nm Red CW 40mW 532nm Green CW
Laser Classification:	Class 3B
Laser Safety Standard::	EN60825-1 2007
Condition Temperature:	10~40°C
DMX Connections:	3 pins XLR Male/Female
DMX Channels	12 channels
Measurement:	Siehe unteres Bild
N Weight:	1.7Kg
LED Power	3W+3W+3W



Every information is subject to change without prior notice. The availability of particular products may vary by region. Please check with the dealer.

**Importer:**

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